PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or ager	it's file reference	1					
FA1159PCT		FOR FURTHER AC	Preliminary Examination Report (Form PCT/IPI				
International applic	International filing date	ternational filing date (day/month/year)		Priority date (day/month/year)			
PCT/US04/14371		06 May 2004 (06.05.200	0004)				
	Classification (IPC)	or national classification a	nd IPC		07 May 2003 (07.05.2003)		
IPC(7): G01J 3/42,	3/46 and US Cl.: 356	5/319.402					
Applicant							
E.I. DU PONT DE	NEMOURS AND C	OMPANY					
1. This in Examir	ternational prelimin ning Authority and	ary examination report is transmitted to the app	has been licant ac	n prepared by ecording to A	this International Preliminary		
2. This R	EPORT consists of	a total of 6 sheets, inclu	ding thi	s cover sheet.			
l Wi	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	nnexes consist of a						
3. This re	port contains indica	tions relating to the follo	owing it	ems:			
I Basis of the report							
II Priority							
III Non-establishment of report with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention					step and industrial applicability		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects in the international application							
vm 🔀	67						
Date of submission	of the demand		Date of	completion of	of this report		
03 December 2004 (03.12.2004)			- 1st 2005 (30.08	•		
	dress of the IPEA/U	s	Authori	zed officer	M.		
Commissioner		ĺ	Gregory J. Toatley, Jr. Majniss, arter				
P.O. Box 1450 Alexandria, Virginia 22313-1450					Line		
Facsimile No. (703)305-3230 orm PCT/IPEA/409 (cover sheet)(July 1998)			Telepho	ne No. (571) 2	272-2059		
Olin PC1/1PEA/409	(cover sneet)(July 19	98)			<i>i</i> /		

International	application	No.	
PCT/US04/1	4371		

Γ.							
		is of the report					
1.	With	regard to the elements of the international application:*					
	X	the international application as originally filed.					
	\bowtie	the description:					
		pages 1-44 as originally filed					
ŀ		pages NONE, filed with the demand pages NONE, filed with the letter of					
	\square						
İ		the claims:					
		pages 45-50 as originally filed					
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand					
		pages NONE, filed with the letter of					
		the drawings:					
	Ш	pages NONE, as originally filed					
		pages NONE , filed with the demand					
		pages NONE, filed with the letter of					
	\Box	the sequence listing part of the description:					
	_	pages NONE, as originally filed					
		pages NONE , filed with the demand					
		pages NONE, filed with the letter of					
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the					
	Thes	page in which the international application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is:					
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).					
	П	the language of the translation furnished for the purposes of international preliminary examination (under Rules					
	***************************************	55.2 and/or 55.3).					
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the					
	interi	national preliminary examination was carried out on the basis of the sequence listing:					
	님	contained in the international application in printed form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
list		The statement that the information recorded in computer readable form is identical to the written sequence					
HOL	_	has been furnished.					
4.		The amendments have resulted in the cancellation of:					
		the description, pages NONE					
		the claims, Nos. NONE					
		the drawings, sheets/fig NONE					
5.	一,						
٠. ا		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
* R	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Axiola 14 and an invitation under Axiola 14 and an invitation under Axiola 14 and axiola 14 an						
******	ιερυπ	t to the street will are not annexed to this report since they do not contain amondments. Pulse 70 16 and 70 17					
orm	DCT/	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US04/14371

TATEMENT			
Novelty (N)	Claims	8,9,15-19,22,24 and 25	YE
	Claims	1-7,10-14,20,21 and 23	
Inventive Step (IS)	Claims	NONE	YE
	Claims	1-25	NO
Industrial Applicability (IA)	Claims	1-25	YE
	Claims	NONE	NC
ITATIONS AND EXPLANATIONS See Continuation Sheet			
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International application No.

PCT/US04/14371

VIII.	Certain observations	on	the	international	application	
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The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 17 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 17 is indefinite for the following reason(s): improperly dependent upon claim 8 that points to a method rather than a portable computer usable storage medium such as claim 16.

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V. 2. Citations and Explanations:

Claims 1-7 and 10-14 lack novelty under PCT Article 33(2) as being anticipated by Falcoff (US 4,403,866).

As for claims 1-7 and 10-14, Falcoff in a color matching method and system discloses the following: measuring reflectances of a target with a spectrophotometer to plot spectral curves and calculating target color values of said target; selecting at least one colorant combination from stored values of standards; determining concentrations of colorants and balancing with non-colorants such as solvents and binder solutions; selecting optimized combination from an equation such as a difference between L*, a*, and b* values; comparing composition when applied to target coating; displaying values on a screen suggested by a computer and color stylist; mixing is involved to produce desired optimized formulation; applying optimized formulation through spraying onto a substrate such as a primed steel panel; substrate is a truck or auto body and coating composition is automotive paint; at least one colorant is used in the formulation; a matched coating composition is produced (column 2, lines 40-67; column 3, lines 5-45; columns 4-5; column 8, lines 20-35); the device comprises a programmable computer thereby having computer code with spectrophotometer; mixer; dispenser (Fig. 1: 1, 19, 13 with FILL).

Claims 20, 21, and 23 lack novelty under PCT Article 33(2) as being anticipated by Cheetam (5,668,633).

As for claims 20, 21, 23, Cheetam in a method and system for formulating a color match discloses: measuring the spectrum, reflectances, of a target standard; calculating target color values of said target; selecting at least one colorant combination; determining concentrations of colorants; balancing combinations to allow for presence of noncolorant such as resins or grades of plastics; selecting optimal combination to be mixed and matched and formed with resin form; mixing of coating and resins to produced matched resin; processing said resin through molding (Figures 2-3; columns 3-6).

Claims 8, 9, 15, and 18 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Corrigan (US 6,522,977) and Kettler (US 5,929,998) and Steenhoek (US 4,917,495).

As for claims 8, 9, 15, and 18 Falcoff discloses everything as above (see claims 1 and 11). He is silent about using multiple angles with his spectrophotometer nor the transportability of the device. However, Corrigan, Kettler, and Steenhoek all teach that color measurements are made at multiple angles with aspecular angles and that their systems are portable (Corrigan: column 6, lines 24-60; Kettler: column 5, lines 10-35; Steenhoek: Figure 1 and column 5, lines 30-60). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the method and device provide multiple aspecular angles of measurement in measurement. In addition, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the system be portable in order to facilitate quick measurements on a variety of test surfaces such as horizontal and vertical surfaces on automobile bodies.

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Claims 16-17 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Corrigan (US 6,522,977).

As for claims 16-17, Falcoff teaches claim 1 (see above) and a programmed computer (column 5, lines 65-67). He is silent concerning portable computer storage medium such as CD-ROM. However, Corrigan in a color matching device teaches the use of several portable storage media such as CD-ROM, DVD ROM magnetic tape (col. 6, lines 55-60). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the system comprise portable computer usable storage medium such as CD-ROM in order to temporarily or permanently record data in order for it to be read later. Claim 17 has been interpreted as depending from claim 16.

Claim 19 lack an inventive step under PCT Article 33(3) as being obvious over Falcoff (US 4,403,866) in view of Milosevic (US 4,853,542).

As for claim 19, Falcoff discloses everything as above (see claim 11). He is silent concerning a spherical spectrophotometer. However, Milosevic teaches in a spectrophotometer having a spherical configuration to increase signal to noise (column 1, lines 65-67; column 2, lines 1-20). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the spectrophotometer be spherical in order to increase the signal to noise ratio of the system.

Claims 22, 24, 25 lack an inventive step under PCT Article 33(3) as being obvious over Cheetam (5,668,633).

As for claims 22, 24, 25 Cheetam discloses everything as above (see claim 20). He is silent concerning the particular type of molding process (column 5, lines 38-40), the particular substrate and particular matched substrate but he discloses that the substrates may be plastic, paper, or cloth (column 2, lines 55-60). Extrusion, thermoforming, injection molding, blow and rotational molding are well known processes of manipulating resins into forms. Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the resin processed through extrusion, thermoforming, or type of molding in order to form it into a particular shape such as a plaque or chip.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus has industrial applicability because the subject matter claimed be made or used in industry.	can
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----- NEW CITATIONS -----